

6. DATE AND PLACE OF OTHER TESTS OR OPERATIONS, AND THE RESULTS (List name and address of witnesses and identify present location of records)		
7. IDENTIFY ANY PAST, PRESENT OR CONTEMPLATED USE, SALE, OR PUBLICATION OF THE INVENTION Contemplated manufacture and global deployment for national nuclear security.		
8. LIST ANY CLOSELY RELATED PATENTS, PATENT APPLICATIONS AND PUBLICATIONS OF YOURS OR OTHER PERSONS see attached disclosure describing the application of the invention to random access memories.		
PART II. DISCLOSURE OF INVENTION		
Attach on separate sheets of paper a full and complete description of the invention, using the outline given below.		
a. PURPOSE. State the purpose of the invention.		
b. BACKGROUND. Describe the old methods, materials or apparatus used to perform the purpose of the invention and give their limitations and disadvantages.		
c. DESCRIPTION AND OPERATION. Describe clearly and completely the best mode of the invention and give a detailed description of its operation and use. Sketches, prints, photos, or other illustrations should be attached. In the description, use reference characters to refer to components in attached illustrations.		
d. ADVANTAGES AND NEW FEATURES. State the advantages of the invention over the old methods, materials or apparatus described in paragraph b above, and the features believed to be new.		
e. ALTERNATIVES. Indicate any alternative methods, materials, or apparatus of the invention.		
f. CONTRIBUTIONS BY INVENTORS. If this is a joint invention, indicate what contribution was made by each inventor.		
PART III. CERTIFICATION OF INVENTORS		
I certify that the invention disclosed herein and in the attached documents is the <input type="checkbox"/> sole <input checked="" type="checkbox"/> joint invention of the undersigned and that statements and answers are true to my best knowledge and belief.		
Date 11 Sept. '02	Signature Robert A. August	
Date 18 Sept '02	Signature Harold L. Hughes	
Date 11 Sept. '02	Signature Patrick J. McMarr	
Date 11 September 2002	Signature Robert R. Whitlock	
PART IV. CERTIFICATION OF WITNESSES		
I certify that the invention described herein and in the attached documents has been disclosed to and understood by me.		
Date	Signature	Business Address
Date	Signature	Business Address

NAVOCMR 6370/32 (11-85) (Revised)

FAX TRANSMISSION

DATE: July 14, 2006

PTO IDENTIFIER: Application Number 10/693,847-Conf. #7110
Patent Number

Inventor: Robert A August et al.

MESSAGE TO: US Patent and Trademark Office, D. Malevic, Examiner

FAX NUMBER: (571) 273-5975

FROM: US NAVAL RESEARCH LABORATORY

Amy L. Rensing

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Attorney Dkt. #: 84355-US1

PAGES (Including Cover Sheet): 21

CONTENTS: Photocopy of Invention Disclosure with dated signature - 19 pages
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PTO/SB/97 (09-04)

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Attorney Docket No.: 84355-US1

Application No. (if known): 10/693,847

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on July 14, 2006
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Photocopy of Invention Disclosure with dated signature — 19 pages

ROUTE SHEET

CODE	DATE	INITIALS	PURPOSE	REMARKS
6175 Whitlock	9/30	RW		
6170	9/30	KR	2.6	
6101	10/10	W	2.6	
6100	10/16	J	2.6	
6170A	10/18	W		Make copy for file
1221.1	10/28	TZ	1	Send to 1008.2
1008.2				RECEIVED OCT 23 2002
6175 Whitlock				

INSTRUCTIONS Prepare 2 copies of this route sheet and forward ALL copies together with necessary correspondence and other documents.		FROM CHEMISTRY DIVISION SURFACE CHEMISTRY BRANCH CODE 6175, ROBERT WHITLOCK		DIVISION DO NOT FILL IN	
*PURPOSE		DATE OF MATERIAL 30 September 2002	BRANCH INDENT. SYMBOL 6170/431:les		
1. FOR INFORMATION 2. FOR APPROVAL 3. PREPARE REPLY 4. PREPARE ENDORSEMENT 5. FOR NECESSARY ACTION 6. FOR SIGNATURE 7. RETAIN ENCLOSURES 8. RETAIN COPY		ORIG. INDENT. SYMBOL (Mail Room Fill In)		DATE MAILED	
2-0524 OCT 18 2002				FILE NO.	
		SUBJECT RECORD & DISCLOSURE OF INVENTION			

ONRINST 5870.1C

RECORD AND DISCLOSURE OF INVENTION			FOR USE BY NAVY INTELLECTUAL PROPERTY OFFICE	
			DATE DISCLOSURE RECEIVED	NAVY CASE NO.
<p>INSTRUCTIONS: A Navy employee should use this form when submitting an invention disclosure to the Department of the Navy. Fill in each blank with the requested information or enter "NONE" as appropriate. Original and two copies should be printed or typed and forwarded to the Intellectual Property Office responsible for providing services to your activity. Where space on form is inadequate, enter "see attached page," use plain pages as needed, and identify item by number. When completely executed, this form becomes an important legal document useful in proving priority of invention. This form may also be used by a contractor or grantee for disclosing an invention to the Navy.</p>				
PART 1. RECORD OF INVENTION				
1. INVENTOR(S)	ADDRESS	POSITION TITLE	EMPLOYER (Activity & Code No., or Company & address)	
Robert A. August	Solomons, MD	Research Physicist	Naval Research Lab Code 6175	
Harold L. Hughes	WEST RIVER, MD	ENGINEER	Naval Research Lab Code 6816	
Patrick J. McMarr	Springfield VA	Research Physicist	SFA	
Robert R. Whitlock	Bethesda MD	Research Chemist	Naval Research Lab Code 6175	
2. DESCRIPTIVE TITLE OF INVENTION				
Neutron Sensitive Integrated Circuit				
3. CONCEPTION, INITIAL RECORDS AND RESULTS OF FIRST MODEL				
a. EARLIEST DATE AND PLACE INVENTION WAS CONCEIVED (Identify persons and records to support date and place)				
Neutron sensitizing of DRAM circuits was tested by R.A. August				
b. DATE AND PRESENT LOCATION OF FIRST SKETCH, DRAWING OR PHOTO AND FIRST WRITTEN DESCRIPTION (Such as notebook entries, etc.)				
Laboratory notebook of R.A. August, relevant work dating from 1993				
c. DATE AND PLACE OF COMPLETION OF FIRST MODEL, PROTOTYPE, PRELIMINARY SYNTHESIS, FORMULATION, ETC., AND ITS PRESENT LOCATION				
See above. Further testing and demonstration is in progress.				
d. DATE AND PLACE OF FIRST TEST OR OPERATION AND THE RESULTS (Give name and address of witnesses, and present location of records)				
Initial tests (see laboratory notebook, above) resulted in low sensitivity. Current work is anticipated to elevate the sensitivity.				
4. OTHER RECORDS (Notebook entries, descriptions, reports, drawings, etc.)				
IDENTIFICATION	DATE OF DOCUMENT	PRESENT LOCATION		
5. OTHER INDIVIDUALS TO WHOM INVENTION WAS DISCLOSED				
NAME	ACTIVITY OR COMPANY INDIVIDUAL REPRESENTS	DATE DISCLOSED	TYPE (oral or written disclosure)	
Matthew Schor	SkyBitz, Herndon VA	-12/7/2001	oral	
TSWG	USDoD, proposal	12/21/2001	written quad chart	
Dr Jeff Kieft	OSTP, White House	-5/6/2002	presentation (Schor)	
Dr Tony Fainberg, TSA*	Detect'n Tech Container Security Subgrp	6/12/2002	presentation, written	
Dr Derek Mahin*	DTRA Combat Support	7/30/2002	presentation, floppy	
Linda Clifton	US Customs, white paper	8/5/2002	written	

NAVOONR 5870/35 (11-89)

Formerly NAVONR 5870/35 (Rev. 5-83)